CLAIMS

What is claimed is:

1	1. A method of automated data collection and analysis, the method compr	ising the
2	machine-implemented steps of:	
3	receiving a request for information about a device;	•
4	constructing a command set, wherein the command set is a set of execu	table
5	commands that indicate collection of data from the device and z	ero or more
6	other devices;	
7	sending the command set to the device;	
8	receiving analysis results from an analysis engine, wherein the analysis	results are
9	based at least in part on a set of results received from the device	and produced
10	by executing the command set; and	
11	determining a set of solutions based on the analysis results.	

- 1 2. The method of Claim 1, wherein the command set comprises one or more commands 2 to collect data from two or more devices simultaneously.
- 1 3. The method of Claim 1, wherein the command set comprises a first command to
- 2 collect data from the device at a first time, and a second command to collect data from the
- device at a second time, wherein the first time is different from the second time.
- 1 4. The method of Claim 1, further comprising the step of producing the analysis results
- 2 based on a result set, where the result set is based at least in part on the execution of the
- 3 command set.
- 1 5. The method of Claim 4, further comprising the step of removing confidential
- 2 information from the result set.

- 1 6. The method of Claim 1, further comprising the step of providing the set of solutions
- 2 to a user.
- 1 7. The method of Claim 1, wherein the step of constructing the command set comprises
- 2 choosing one or more commands from a list of predefined commands.
- 1 8. The method of Claim 7, wherein the step of choosing one or more commands from
- 2 the list of predefined commands comprises choosing one or more commands based at least in
- 3 part on the request for information about the device.
- 1 9. The method of Claim 1, wherein the step of constructing the command set comprises
- 2 defining new commands based on the request for information about the device.
- 1 10. A method for automated data collection from a network device and analysis of the
- 2 data, the method comprising the machine-implemented steps of:
- 3 receiving a request for information about the network device;
- 4 constructing a command set, wherein the command set is a set of executable
- 5 commands that indicate collection of data from the network device and zero or
- 6 more other network devices;
- 7 sending the command set for execution at the network device;
- 8 receiving analysis results from an analysis engine, wherein the analysis results are
- based at least in part on a set of results received from the network device and
- produced by executing the command set; and
- determining a set of solutions based on the analysis results.
- 1 11. A machine-readable medium carrying one or more sequences of instructions for
- 2 automated data collection and analysis, which instructions, when executed by one or more
- 3 processors, cause the one or more processors to carry out the steps of:
- 4 receiving a request for information about a device;

5		constructing a command set, wherein the command set is a set of executable
6		commands that indicate collection of data from the device and zero or more
7		other devices;
8		sending the command set for execution at the device;
9		receiving analysis results from an analysis engine, wherein the analysis results are
10		based at least in part on a set of results received from the device and produced
11		by executing the command set; and
12		determining a set of solutions based on the analysis results.
1	12.	An apparatus for automated data collection and analysis, comprising:
2		means for receiving a request for information about a device;
3		means for constructing a command set, wherein the command set is a set of
4		executable commands that indicate collection of data from the device and zero
5		or more other devices;
6		means for sending the command set for execution at the device;
7		means for receiving analysis results from an analysis engine, wherein the analysis
8		results are based at least in part on a set of results received from the device
9		and produced by executing the command set; and
10		means for determining a set of solutions based on the analysis results.
1	13.	An apparatus for automated data collection and analysis, comprising:
2		a network interface that is coupled to a data network for receiving one or more packet
3		flows therefrom;
4		a processor;
5		one or more stored sequences of instructions which, when executed by the processor,
6		cause the processor to carry out the steps of:
7		receiving a request for information about a device;
8		constructing a command set, wherein the command set is a set of executable
9		commands that indicate collection of data from the device and zero or
10		more other devices;
11		sending the command set for execution at the device;

12	receiving analysis results from an analysis engine, wherein the analysis resul		
13	are based at least in part on a set of results received from the device		
14	and produced by executing the command set; and		
15	determining a set of solutions based on the analysis results.		
1	14. A method of automated data collection and analysis, the method comprising the		
2	machine-implemented steps of:		
3	sending a request for information about a device;		
4	receiving a command set in response to the request, wherein the command set is a se		
5	of executable commands that indicate collection of data from the device and		
6	zero or more other devices;		
7	executing the command set;		
8	generating a result set based on the execution of the command set;		
9	sending the result set to an analysis engine as part of a second request for analysis of		
10	the result set; and		
11	receiving a solution to one or more problems discovered at least in part by the		
12	analysis engine		
1	15. The method of Claim 14, wherein the steps are performed by a command runner		
2	module running on a user machine, and wherein the method further comprises the step of		
3	determining whether the user machine has the latest version of the command runner module		
1	16. The method of Claim 15, further comprising the step of:		
2	if the user machine does not have a version of the command runner module,		
3	downloading the command runner module.		
1	17. The method of Claim 15, further comprising the step of:		
2	if the user machine does not have the latest version of the command runner module,		
3	downloading a patch to the command runner module.		

- 1 18. The method of Claim 14, further comprising the step of removing confidential
- 2 information from the result set.

analysis engine.

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1 19. A method of automated data collection and analysis from one or more network 2 devices, the method comprising the machine-implemented steps of: 3 sending a request for information about a network device; 4 receiving a command set in response to the request, wherein the command set is a set 5 of executable commands that indicate collection of data from the network 6 device and zero or more other network devices; 7 executing the command set; 8 generating a result set based on the execution of the command set; 9 sending the result set to an analysis engine as part of a second request for analysis of 10 the result set; and

receiving a solution to one or more problems discovered at least in part by the